



|                               |   |    |   |                          |                   |
|-------------------------------|---|----|---|--------------------------|-------------------|
| Substitute for form 1449A/PTO |   |    |   | <i>Complete if Known</i> |                   |
|                               |   |    |   | Application Number       | 10/731,084        |
|                               |   |    |   | Filing Date              | December 10, 2003 |
|                               |   |    |   | First Named Inventor     | Hideyuki OTAKE    |
|                               |   |    |   | Art Unit                 | 2816              |
|                               |   |    |   | Examiner Name            | Not yet assigned  |
| Sheet                         | 1 | of | 1 | Attorney Docket Number   | 031794-10         |

| U.S. PATENT DOCUMENTS          |                       |  |                                |  |   |
|--------------------------------|-----------------------|--|--------------------------------|--|---|
| Examiner Initials <sup>1</sup> | Cite No. <sup>1</sup> | U.S. Patent Document                       | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                                |                       | Number - Kind Code <sup>2</sup> (if known) |                                |  |   |
| lw                             |                       | US-5,856,756                               | 01-05-1999                     | Sasahara et al.                                    |   |
| lw                             |                       | US-6,060,918                               | 05-09-2000                     | Tsuchida et al.                                    |   |
| lw                             |                       | US-6,529,411 B2                            | 03-04-2003                     | Tonda et al.                                       |   |
|                                |                       | US-  |                                |  |   |
|                                |                       | US-  |                                |  |   |
|                                |                       | US-  |                                |  |   |

| FOREIGN PATENT DOCUMENTS       |                       |  |                                |  |  |
|--------------------------------|-----------------------|--|--------------------------------|--|--|
| Examiner Initials <sup>1</sup> | Cite No. <sup>1</sup> | Foreign Patent Document  | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear |
|                                |                       | Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup><br>(if known) |                                |  |  |
| lw                             |                       | JP 07-072943   | 03-17-1995                     | Kuroda et al.                                      | Abstract   |
| lw                             |                       | JP 7-110721  | 04-25-1995                     |  |  |
| lw                             |                       | JP 10-49243  | 02-20-1998                     |  |  |
| lw                             |                       | JP 2000-148264   | 05-26-2000                     | Matsubara  | Abstract   |
| lw                             |                       | JP 2000-181558   | 06-30-2000                     | Ikegami et al.                                     | Abstract   |
| in                             |                       | JP 2002-170391   | 06-14-2002                     |  |  |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS |                       |   |  |  |                |
|---|-----------------------|---|--|--|----------------|
| Examiner Initials <sup>1</sup>                    | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |  |  | T <sup>2</sup> |
|   |                       | NOTICE OF REASONS OF REJECTION DATED MARCH 9, 2004  |  |  |                |
|   |                       |   |  |  |                |
|   |                       |   |  |  |                |

|                    |             |                 |          |
|--------------------|-------------|-----------------|----------|
| Examiner Signature | Long Nguyen | Date Considered | 12/16/04 |
|--------------------|-------------|-----------------|----------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

12/10/03

|  |   |                          |   |                                 |  |  |
|--|---|--------------------------|---|---------------------------------|--|--|
| <p>Substitute for form 1449A/PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p><i>(use as many sheets as necessary)</i></p> |   |                          |   | <p><i>Complete if Known</i></p> |  |  |
| <p>Application Number</p>  |   | <p>New Application</p>   |   |                                 |  |  |
| <p>Filing Date</p>   |   | <p>December 10, 2003</p> |   |                                 |  |  |
| <p>First Named Inventor</p>  |   | <p>Hideyuki OTAKE</p>    |   |                                 |  |  |
| <p>Art Unit</p>  |   |                          |   |                                 |  |  |
| <p>Examiner Name</p>   |   |                          |   |                                 |  |  |
| <p>Attorney Docket Number</p>  |   | <p>031794-10</p>         |   |                                 |  |  |
| Sheet  | 1 | of                       | 1 |                                 |  |  |

| FOREIGN PATENT DOCUMENTS       |                       |   |                                |  |   |                |
|--------------------------------|-----------------------|---|--------------------------------|--|---|----------------|
| Examiner Initials <sup>1</sup> | Cite No. <sup>1</sup> | Foreign Patent Document                       | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Application of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear | T <sup>2</sup> |
|                                |                       | Country Code <sup>3</sup> Number <sup>4</sup> |                                |  |   |                |
| LN                             | JP 2928531            |   | 05/14/1999                     | Horiguchi et al.                                     |   | Abstract       |
| LN                             | JP 05-205469          |   | 08/13/1993                     | Park et al.  |   | Abstract       |
|                                |                       |   |                                |  |   |                |
|                                |                       |   |                                |  |   |                |
|                                |                       |   |                                |  |   |                |

| OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS |                       |   |                |
|---|-----------------------|---|----------------|
| Examiner Initials <sup>1</sup>                    | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|   |                       |   |                |
|   |                       |   |                |
|   |                       |   |                |

|                       |             |                    |          |
|-----------------------|-------------|--------------------|----------|
| Examiner<br>Signature | Long Nguyen | Date<br>Considered | 12/16/04 |
|-----------------------|-------------|--------------------|----------|

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.